Sunni Magan

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Education

Master of Science in Computer Science   **August 2023 – December 2024**
The University of Texas at Dallas · Richardson, TX

Bachelor of Science in Computer Science   **August 2020 – May 2023**
The University of Texas at Dallas · Richardson, TX

Relevant Courses:

- Multicore Programming
- Advanced Computer Networks
- Real Time Systems
- Advanced Operating Systems
- Robotic Manipulation and Navigation

Projects

Robotic Chessboard Setup | Python, Docker, ROS   **August 2024 – December 2024**
- Developed an autonomous robotic system for chessboard setup using a Fetch mobile manipulator.
- Implemented 6D pose estimation with MegaPose to address object symmetry obstacles.
- Utilized RGB-D sensors for real-time piece recognition and MoveIt! for precise motion planning.
- Simulated and tested the system using ROS and Gazebo for performance validation.

Degree Auditing Tool | Java, Python   **August 2022 – December 2022**
- Designed and developed award-winning auditing tool utilized by UT Dallas advisors.
- Automated degree auditing, reducing manual data entry by 150% and streamlining workflow.
- Collaborated with advisors to refine UI/UX and enhance usability.

Interactive Ship Tracking Display | Python, JavaScript   **January 2022 – May 2022**
- Built a Raspberry Pi-based real-time ship tracking system with WebSocket and Google Maps API.
- Developed a local HTTP server for dynamic configuration and data.

Experience

IT Support Technician | SPARKSS Equity LLC   **May 2019 – December 2024**
- Managed installation, maintenance, and troubleshooting of PC, network, and related systems.
- Provided in-person and remote support, improving technical issue resolution efficiency.
- Automated system monitoring tasks using Bash scripting to reduce downtime.

Skills

Programming: C, C++, Java, Python, MySQL, Prolog, JavaScript, HTML, CSS
Frameworks: React, Node, Robot Operating System (ROS)
Technologies: Linux, Docker, Git, Bash, Wireshark
Development: Multithreading, Distributed Systems, Network Programming